

Notice of Allowability

Application No.

10/601,069

Examiner

Phuongchi Nguyen

Applicant(s)

MURAYAMA ET AL.

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 2-4, 7-15 and 19.
3. ☒ The drawings filed on 30 June 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.


THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Gary Paumen
Primary Examiner

Reason For Allowance

1. Claims 2-4, 7-15 and 19 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter:

In regarding to claim 2, none of prior art teaches or suggests a connector mounted on a board having a plurality of board signal lines for transmitting a signal and a board ground line grounded, including a plurality of ground electrodes extended from the shield for core line and opposed to each other by intervention of the signal electrode for connecting the shield for core line with the board ground line respectively, a part of each of the plurality of signal terminals by two lines side by side in which a first row and a second row are parallel to each other, the connector is mounted to one side of the board on which its front face is parallel to the axis direction.

In regarding to claim 3, none of prior art teaches or suggests a connector mounted on a board having a plurality of board signal lines for transmitting a signal and a board ground line grounded, including a plurality of ground electrodes extended from the shield for core line and opposed to each other by intervention of the signal electrode for connecting the shield for core line with the board ground line respectively , and a housing holding the arrangement orientation in the housing formed in the shape of a wave protruded in the direction perpendicular to the side surface respectively in each position holding the plurality of signal terminals.

In regarding to claim 7, none of prior art teaches or suggests a connector mounted on a board having a plurality of board signal lines for transmitting a signal and a board ground line grounded, including a plurality of ground electrodes extended from the shield for core line and opposed to each other by intervention of the signal electrode for connecting the shield for core line with the board ground line respectively, and rivets fixing the housing to the board.

Art Unit: 2833

In regarding to claim 9, none of prior art teaches or suggests a connector mounted on a board having a plurality of board signal lines for transmitting a signal and a board ground line grounded, including a plurality of ground electrodes extended from the shield for core line and opposed to each other by intervention of the signal electrode for connecting the shield for core line with the board ground line respectively, and a housing holding a part of each of the plurality of signal terminals by zigzag arrangement of two lines consisted of a first and a second rows parallel to each other.

In regarding to claim 11, none of prior art teaches or suggests a connector mounted on a board having a plurality of board signal lines for transmitting a signal and a board ground line grounded, including a plurality of ground electrodes extended from the shield for core line and opposed to each other by intervention of the signal electrode for connecting the shield for core line with the board ground line respectively, and a circle-shaped extension part protruding from an inside surrounding the signal core line to the signal core line by extension in the shape of a circle surrounding the signal core line in the vicinity of one end of the signal core line.

In regarding to claim 12, none of prior art teaches or suggests a connector mounted on a board having a plurality of board signal lines for transmitting a signal and a board ground line grounded, including a plurality of ground electrodes extended from the shield for core line and opposed to each other by intervention of the signal electrode for connecting the shield for core line with the board ground line respectively, and the signal core line and the connected core line is a core line terminal of male type is pressed by an elastic force of a core line terminal of female type on outer face in inner face contacted with each other and contact to the core line shield prior to contact with another side.

In regarding to claim 15, none of prior art teaches or suggests a connector mounted on a board having the tip of the signal core line intervenes between the signal core line and the first

Art Unit: 2833

shield in the vicinity of the protrusion part which is formed to lock the surface of the housing, and the first and second shield encloses the signal core line by the extension from the tip to an axis direction.

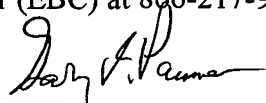
In regarding to claim 19, none of prior art teaches or suggests a connector mounted on a board having a plurality of board signal lines for transmitting a signal and a board ground line grounded comprising one side of the signal core line and the shield is contacted with the connected core line prior to contact with another side and combination with another limitation in the claim.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hatakeyama, Kenichi (US 6,354,871); Andrews Derek (US5169343, US5334050, US5330371); Hosler et al (US5842872); Louwagie et al (US5348491); Dechelette Helen (US5421735); Pauza William Vito (US5910347); Lester Joaquin (US6164977); Suzuki et al (US5011415); Cartesse et al (US5516307) and Bruce Burton (US6305947) are cited to show in the coaxial connector having signal conductor core and the shield around the signal core.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchi Nguyen whose telephone number is (571) 272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PCN September 14, 2004



Gary Paumen
Patent Examiner